

10578677

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Welcome to STN International! Enter x:x

LOGINID:SSSPTA1626GMS

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 JAN 08 CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 3 JAN 16 CA/CAPLUS Company Name Thesaurus enhanced and reloaded
NEWS 4 JAN 16 IPC version 2007.01 thesaurus available on STN
NEWS 5 JAN 16 WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 6 JAN 22 CA/CAPLUS updated with revised CAS roles
NEWS 7 JAN 22 CA/CAPLUS enhanced with patent applications from India
NEWS 8 JAN 29 PHAR reloaded with new search and display fields
NEWS 9 JAN 29 CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 10 FEB 15 PATDPASPC enhanced with Drug Approval numbers
NEWS 11 FEB 15 RUSSIAPAT enhanced with pre-1994 records
NEWS 12 FEB 23 KOREAPAT enhanced with IPC 8 features and functionality
NEWS 13 FEB 26 MEDLINE reloaded with enhancements
NEWS 14 FEB 26 EMBASE enhanced with Clinical Trial Number field
NEWS 15 FEB 26 TOXCENTER enhanced with reloaded MEDLINE
NEWS 16 FEB 26 IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 17 FEB 26 CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS 18 MAR 15 WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 19 MAR 16 CASREACT coverage extended
NEWS 20 MAR 20 MARPAT now updated daily
NEWS 21 MAR 22 LWPI reloaded
NEWS 22 MAR 30 RDISCLOSURE reloaded with enhancements
NEWS 23 APR 02 JICST-EPLUS removed from database clusters and STN
NEWS 24 APR 30 GENBANK reloaded and enhanced with Genome Project ID field
NEWS 25 APR 30 CHEMCATS enhanced with 1.2 million new records
NEWS 26 APR 30 CA/CAPLUS enhanced with 1870-1889 U.S. patent records
NEWS 27 APR 30 INPADOC replaced by INPADOCDB on STN
NEWS 28 MAY 01 New CAS web site launched

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 12:38:46 ON 01 MAY 2007

=>

Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Do you want to switch to the Registry File?

Choice (Y/n):

Switching to the Registry File...

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 12:38:58 ON 01 MAY 2007

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STRUCTURE FILE UPDATES: 30 APR 2007 HIGHEST RN 933825-30-0

DICTIONARY FILE UPDATES: 30 APR 2007 HIGHEST RN 933825-30-0

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

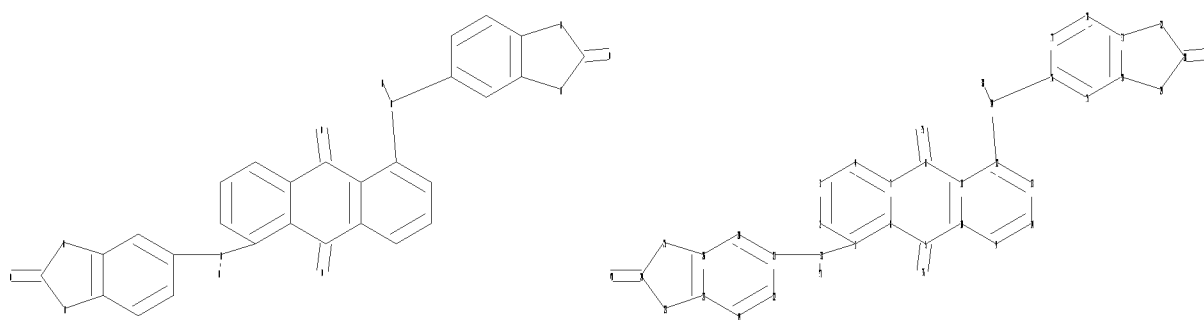
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10578677.str

10578677



```
chain nodes :
33 34 35 36 37 38 39 40
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32
chain bonds :
1-33 5-36 8-35 12-34 16-34 21-33 24-40 28-39 33-37 34-38
ring bonds :
1-2 1-6 2-3 3-4 4-7 5-6 5-10 6-7 7-8 8-11 9-10 9-14 10-11 11-12 12-13
13-14 15-16 15-30 16-17 17-18 18-31 19-27 19-22 20-26 20-21 21-22 23-24
23-27 24-25 25-26 26-27 28-29 28-32 29-30 30-31 31-32
exact/norm bonds :
1-33 5-36 8-35 12-34 16-34 21-33 23-24 23-27 24-25 24-40 25-26 28-29
28-32 28-39 29-30 31-32
exact bonds :
5-6 5-10 7-8 8-11 33-37 34-38
normalized bonds :
1-2 1-6 2-3 3-4 4-7 6-7 9-10 9-14 10-11 11-12 12-13 13-14 15-16 15-30
16-17 17-18 18-31 19-27 19-22 20-26 20-21 21-22 26-27 30-31
isolated ring systems :
containing 1 : 15 : 19 :
```

```
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom
29:Atom 30:Atom 31:Atom 32:Atom 33:CLASS 34:CLASS 35:CLASS 36:CLASS
37:CLASS 38:CLASS 39:CLASS 40:CLASS
```

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L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 12:39:17 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 2 TO 124

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 12:39:24 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 29 TO ITERATE

100.0% PROCESSED 29 ITERATIONS 1 ANSWERS

SEARCH TIME: 00.00.01

L3 1 SEA SSS FUL L1

=> FIL HCAPLUS

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.10

172.31

FILE 'HCAPLUS' ENTERED AT 12:39:30 ON 01 MAY 2007

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FILE COVERS 1907 - 1 May 2007 VOL 146 ISS 19

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FILE LAST UPDATED: 30 Apr 2007 (20070430/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 2 L3

=> d l4 ibib abs hitstr tot

L4 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:788224 HCAPLUS

DOCUMENT NUMBER: 145:212717

TITLE: Benzimidazolone compounds with plural color hue

INVENTOR(S): Hosaka, Masayoshi; Nagata, Yoshiaki

PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8pp.

CODEN: JKXXAF

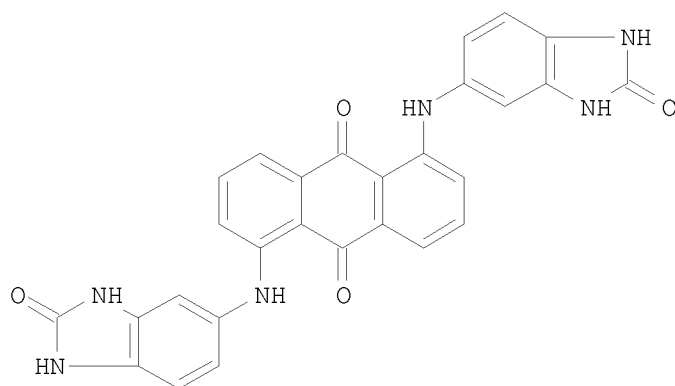
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

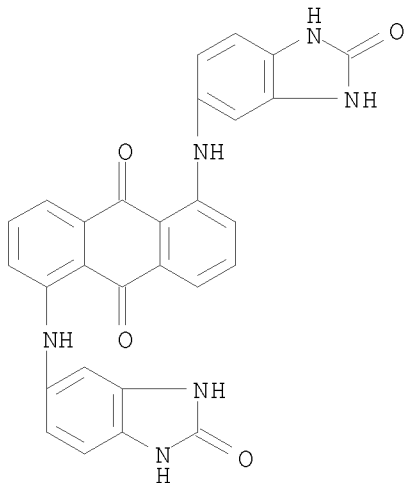
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
JP 2006206761	A	20060810	JP 2005-21322	20050128
PRIORITY APPLN. INFO.:			JP 2005-21322	20050128
GI				



AB The invention relates to benzimidazolone compds. of I with Cu-K α characteristic X-ray diffraction peaks with Bragg angle 2θ 14.9 ± 0.2 , 18.9 ± 0.2 , 20.6 ± 0.2 , and $24.6\pm0.2^\circ$. Thus, a nonaq. dispersion coating comprising a reddish purple pigment of β -typed crystal I, an alkyd resin (Beckosol J 524-IM 60), and melamine resin (Super Beckamine G 821-60) showed high gloss.

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IT 854738-84-4P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM
(Technical or engineered material use); PREP (Preparation); USES (Uses)
(benzimidazolone reddish purple pigments with plural color hue for
glossy coatings)
RN 854738-84-4 HCAPLUS
CN 9,10-Anthracenedione, 1,5-bis[(2,3-dihydro-2-oxo-1H-benzimidazol-5-
yl)amino]- (9CI) (CA INDEX NAME)

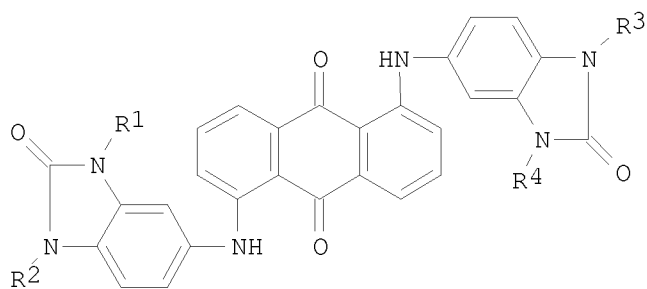


L4 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:547668 HCAPLUS
DOCUMENT NUMBER: 143:61474
TITLE: Benzimidazolone compound violet pigment
INVENTOR(S): Hosaka, Masaki
PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan
SOURCE: PCT Int. Appl., 16 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
WO 2005056688	A1	20050623	WO 2004-JP18190	20041207
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

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JP 2005194265	A	20050721	JP 2004-352605	20041206
JP 3680862	B2	20050810		
EP 1693421	A1	20060823	EP 2004-820196	20041207
R: CH, DE, FR, GB, LI				
CN 1878838	A	20061213	CN 2004-80033010	20041207
PRIORITY APPLN. INFO.:			JP 2003-410204	A 20031209
			WO 2004-JP18190	W 20041207
OTHER SOURCE(S): MARPAT 143:61474				
GI				



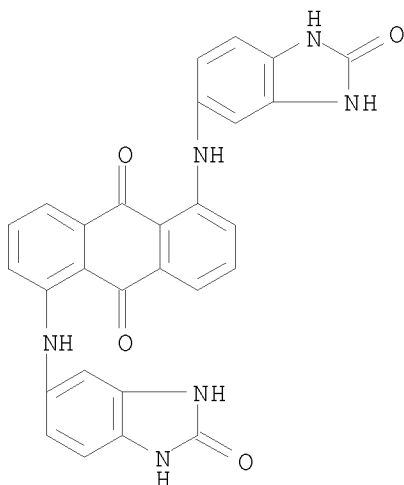
AB Compound I (R1-R4 = H, C1-5 alkyl or C1-5 alkoxy) with good thermal stability is prepared and used as a violet pigment for coatings. Thus, an alkyd resin coating containing I (R1-R4 = H; decomposition temperature 504°) showed good storage stability, solvent resistance, and color hue.

IT 854738-84-4P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(benzimidazolone compound violet pigment with good thermal stability and color hue for coatings)

RN 854738-84-4 HCAPLUS

CN 9,10-Anthracenedione, 1,5-bis[(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)amino]- (9CI) (CA INDEX NAME)

10578677



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL REGISTRY
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
20.94	193.25

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-1.56	-1.56

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STRUCTURE FILE UPDATES: 30 APR 2007 HIGHEST RN 933825-30-0
DICTIONARY FILE UPDATES: 30 APR 2007 HIGHEST RN 933825-30-0

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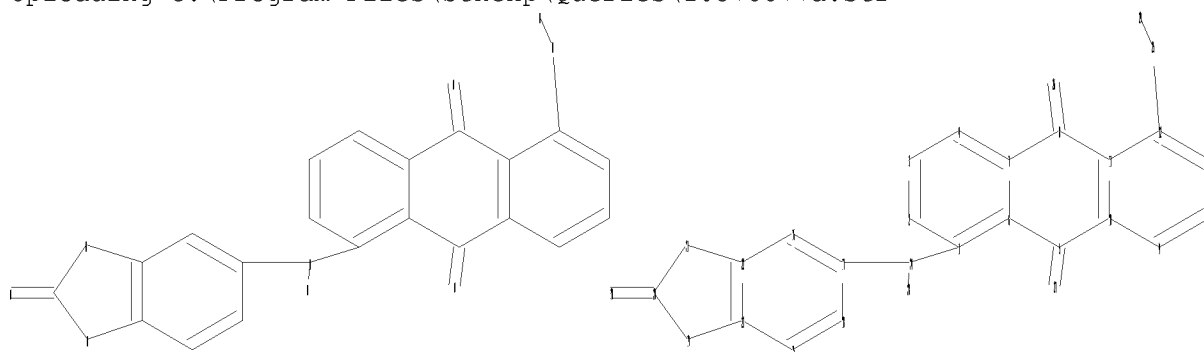
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

10578677

=>

Uploading C:\Program Files\Stnexp\Queries\10578677a.str



chain nodes :
24 25 26 27 28 29 30
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
chain bonds :
1-24 5-27 8-26 12-25 17-24 20-30 24-28 25-29
ring bonds :
1-2 1-6 2-3 3-4 4-7 5-6 5-10 6-7 7-8 8-11 9-10 9-14 10-11 11-12 12-13
13-14 15-23 15-18 16-22 16-17 17-18 19-20 19-23 20-21 21-22 22-23
exact/norm bonds :
1-24 5-27 8-26 12-25 17-24 19-20 19-23 20-21 20-30 21-22
exact bonds :
5-6 5-10 7-8 8-11 24-28 25-29
normalized bonds :
1-2 1-6 2-3 3-4 4-7 6-7 9-10 9-14 10-11 11-12 12-13 13-14 15-23 15-18
16-22 16-17 17-18 22-23
isolated ring systems :
containing 1 : 15 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:CLASS 25:CLASS 26:CLASS 27:CLASS
28:CLASS 29:CLASS 30:CLASS

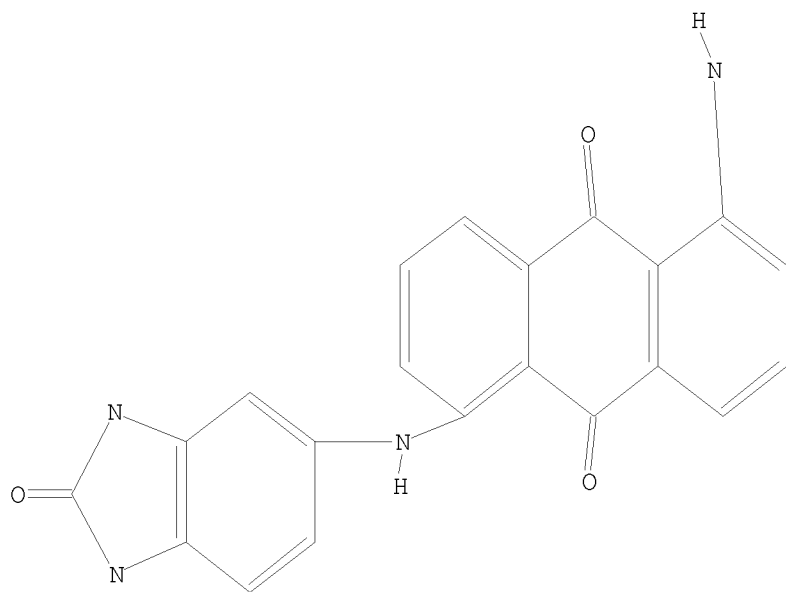
L5 STRUCTURE UPLOADED

=> d 15

L5 HAS NO ANSWERS

L5 STR

10578677



Structure attributes must be viewed using STN Express query preparation.

=> s 15

SAMPLE SEARCH INITIATED 12:42:29 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 1 TO 80

PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> s 15 sss full

FULL SEARCH INITIATED 12:42:35 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 19 TO ITERATE

100.0% PROCESSED 19 ITERATIONS

1 ANSWERS

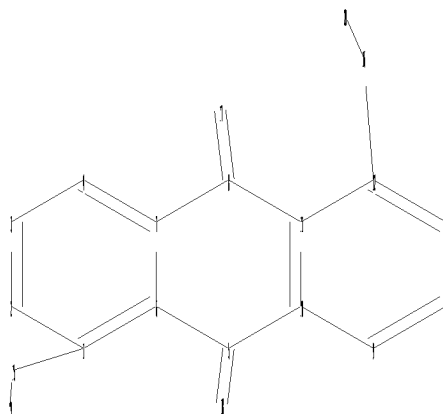
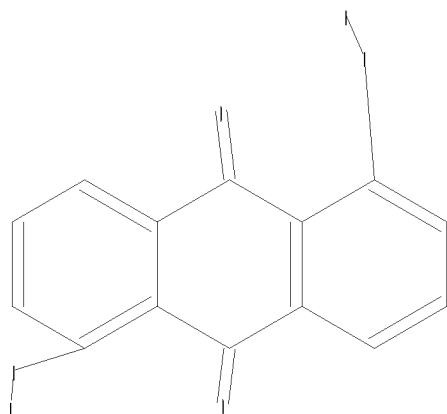
SEARCH TIME: 00.00.01

L7 1 SEA SSS FUL L5

=>

Uploading C:\Program Files\Stnexp\Queries\10578677b.str

10578677



```
chain nodes :
15 16 17 18 19 20
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14
chain bonds :
1-15 5-18 8-17 12-16 15-19 16-20
ring bonds :
1-2 1-6 2-3 3-4 4-7 5-6 5-10 6-7 7-8 8-11 9-10 9-14 10-11 11-12 12-13
13-14
exact/norm bonds :
1-15 5-6 5-10 5-18 7-8 8-11 8-17 12-16
exact bonds :
15-19 16-20
normalized bonds :
1-2 1-6 2-3 3-4 4-7 6-7 9-10 9-14 10-11 11-12 12-13 13-14
```

```
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS
```

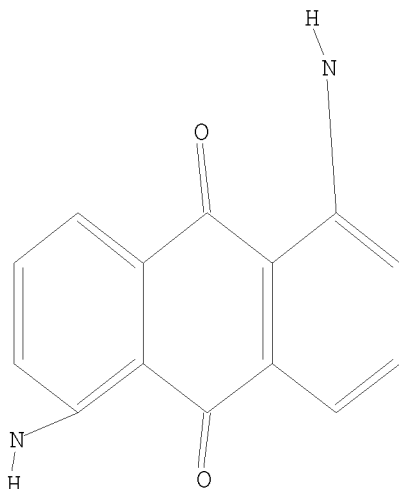
L8 STRUCTURE UPLOADED

=> d 18

L8 HAS NO ANSWERS

L8 STR

10578677



Structure attributes must be viewed using STN Express query preparation.

=> s 18

SAMPLE SEARCH INITIATED 12:43:31 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2760 TO ITERATE

72.5% PROCESSED 2000 ITERATIONS

50 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 52049 TO 58351

PROJECTED ANSWERS: 5254 TO 7386

L9 50 SEA SSS SAM L8

=> s 18 sss full

FULL SEARCH INITIATED 12:43:38 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 55085 TO ITERATE

100.0% PROCESSED 55085 ITERATIONS

6142 ANSWERS

SEARCH TIME: 00.00.01

L10 6142 SEA SSS FUL L8

=> FIL HCAPLUS

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

344.65

537.90

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-1.56

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FILE COVERS 1907 - 1 May 2007 VOL 146 ISS 19
FILE LAST UPDATED: 30 Apr 2007 (20070430/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 12:38:46 ON 01 MAY 2007)

FILE 'REGISTRY' ENTERED AT 12:38:58 ON 01 MAY 2007

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 1 S L1 SSS FULL

FILE 'HCAPLUS' ENTERED AT 12:39:30 ON 01 MAY 2007

L4 2 S L3

FILE 'REGISTRY' ENTERED AT 12:42:00 ON 01 MAY 2007

L5 STRUCTURE UPLOADED

L6 0 S L5

L7 1 S L5 SSS FULL

L8 STRUCTURE UPLOADED

L9 50 S L8

L10 6142 S L8 SSS FULL

FILE 'HCAPLUS' ENTERED AT 12:43:43 ON 01 MAY 2007

=> s 17

L11 2 L7

=> s 110

L12 3797 L10

=> s 112 and p/dt

5703034 P/DT

L13 2222 L12 AND P/DT

=> s 113 and us/pc

10578677

1673584 US/PC
L14 708 L13 AND US/PC

=> s l14 and py<=2002
22885205 PY<=2002
L15 655 L14 AND PY<=2002

=> s l15 and Cu
823682 CU
4965 CUS
825879 CU
(CU OR CUS)
L16 57 L15 AND CU

=> s l15 and Cu-K
823682 CU
4965 CUS
825879 CU
(CU OR CUS)
1406916 K
5823 CU-K
(CU(W)K)
L17 0 L15 AND CU-K

=> s l15 and Bragg angle
26421 BRAGG
73 BRAGGS
26472 BRAGG
(BRAGG OR BRAGGS)
325743 ANGLE
108499 ANGLES
398750 ANGLE
(ANGLE OR ANGLES)
1742 BRAGG ANGLE
(BRAGG(W)ANGLE)
L18 0 L15 AND BRAGG ANGLE

=> d his

(FILE 'HOME' ENTERED AT 12:38:46 ON 01 MAY 2007)

FILE 'REGISTRY' ENTERED AT 12:38:58 ON 01 MAY 2007

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 1 S L1 SSS FULL

FILE 'HCAPLUS' ENTERED AT 12:39:30 ON 01 MAY 2007

L4 2 S L3

FILE 'REGISTRY' ENTERED AT 12:42:00 ON 01 MAY 2007

L5 STRUCTURE UPLOADED
L6 0 S L5
L7 1 S L5 SSS FULL
L8 STRUCTURE UPLOADED
L9 50 S L8
L10 6142 S L8 SSS FULL

10578677

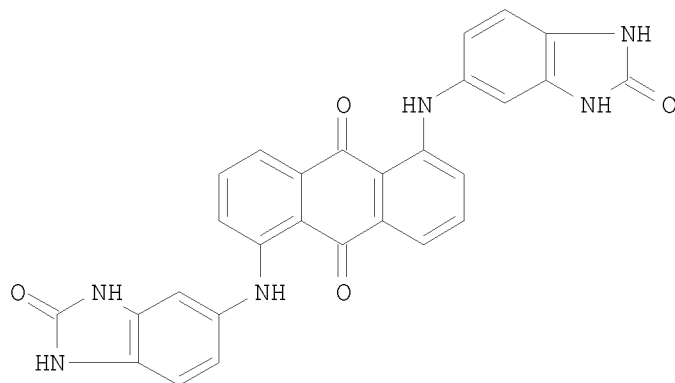
FILE 'HCAPLUS' ENTERED AT 12:43:43 ON 01 MAY 2007

L11 2 S L7
L12 3797 S L10
L13 2222 S L12 AND P/DT
L14 708 S L13 AND US/PC
L15 655 S L14 AND PY<=2002
L16 57 S L15 AND CU
L17 0 S L15 AND CU-K
L18 0 S L15 AND BRAGG ANGLE

=> d l11 ibib abs hitstr tot

L11 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:788224 HCAPLUS
DOCUMENT NUMBER: 145:212717
TITLE: Benzimidazolone compounds with plural color hue
INVENTOR(S): Hosaka, Masayoshi; Nagata, Yoshiaki
PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006206761	A	20060810	JP 2005-21322	20050128
PRIORITY APPLN. INFO.: GI			JP 2005-21322	20050128



AB The invention relates to benzimidazolone compds. of I with Cu-K α characteristic X-ray diffraction peaks with Bragg angle 2 θ 14.9 \pm 0.2, 18.9 \pm 0.2, 20.6 \pm 0.2, and 24.6 \pm 0.2°. Thus, a nonaq. dispersion coating comprising a reddish purple pigment of β -typed crystal I, an alkyd resin (Beckosol J 524-IM 60), and melamine resin (Super Beckamine G 821-60) showed high gloss.

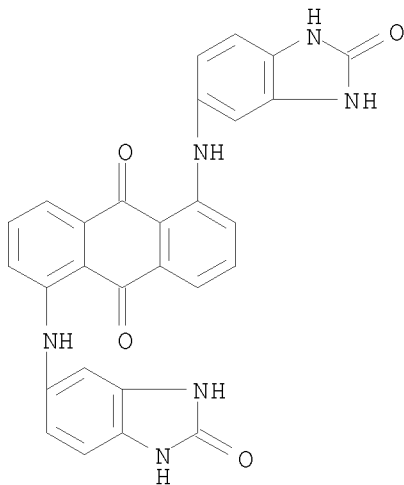
IT 854738-84-4P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM

10578677

(Technical or engineered material use); PREP (Preparation); USES (Uses)
(benzimidazolone reddish purple pigments with plural color hue for
glossy coatings)

RN 854738-84-4 HCAPLUS

CN 9,10-Anthracenedione, 1,5-bis[(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)amino]- (9CI) (CA INDEX NAME)



L11 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:547668 HCAPLUS

DOCUMENT NUMBER: 143:61474

TITLE: Benzimidazolone compound violet pigment

INVENTOR(S): Hosaka, Masaki

PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan

SOURCE: PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

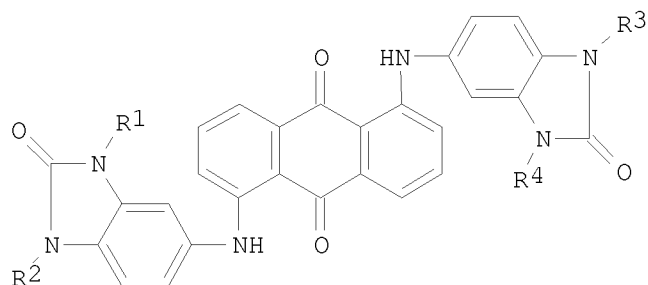
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005056688	A1	20050623	WO 2004-JP18190	20041207
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
JP 2005194265	A	20050721	JP 2004-352605	20041206
JP 3680862	B2	20050810		

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EP 1693421 A1 20060823 EP 2004-820196 20041207
R: CH, DE, FR, GB, LI
CN 1878838 A 20061213 CN 2004-80033010 20041207
PRIORITY APPLN. INFO.: JP 2003-410204 A 20031209
WO 2004-JP18190 W 20041207
OTHER SOURCE(S): MARPAT 143:61474
GI



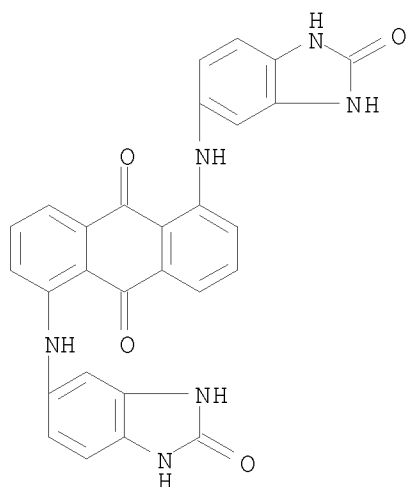
I

AB Compound I (R1-R4 = H, C1-5 alkyl or C1-5 alkoxy) with good thermal stability is prepared and used as a violet pigment for coatings. Thus, an alkyl resin coating containing I (R1-R4 = H; decomposition temperature 504°) showed good storage stability, solvent resistance, and color hue.

IT 854738-84-4P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(benzimidazolone compound violet pigment with good thermal stability and color hue for coatings)

RN 854738-84-4 HCAPLUS

CN 9,10-Anthracenedione, 1,5-bis[(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)amino]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l16 ibib abs hitstr 1-10

L16 ANSWER 1 OF 57 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:499721 HCAPLUS

DOCUMENT NUMBER: 135:93918

TITLE: Novel anthraquinone pigments, their manufacture, coloration of synthetic materials by kneading with the pigments, and the colored synthetic materials

INVENTOR(S): Adan, Jan Marie

PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding, Inc., Switz.

SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

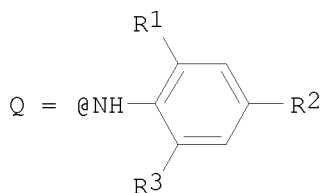
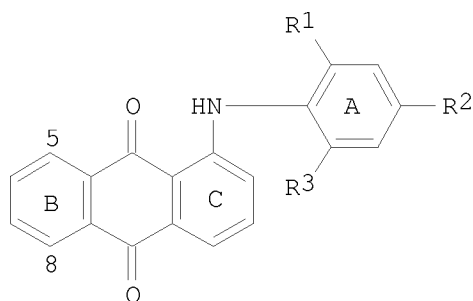
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001187844	A	20010710	JP 2000-391886	20001225 <--
EP 1127922	A1	20010829	EP 2000-811214	20001220 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2001020432	A1	20010913	US 2000-749014	20001227 <--
US 6485559	B2	20021126		
IN 2000MA01130	A	20070420	IN 2000-MA1130	20001227
CN 1309151	A	20010822	CN 2000-137542	20001228 <--
PRIORITY APPLN. INFO.:			EP 1999-811217	A 19991229
OTHER SOURCE(S):	MARPAT 135:93918			

GI



I

AB The color pigments I [R1 = C1-6 alkyl, C1-6 alkoxy, phenoxy, halo; R2 = H, C1-6 alkyl, C1-6 alkoxy, phenoxy, halo, acylamino, CH2NH-acyl, phthalimidomethyl; R3 = C1-6 alkyl, C1-6 alkoxy, phenoxy, halo; Ring A may be substituted with SO3-M+ (M+ = cation); Rings B and C may be substituted with halo, OH, SH, amino, C1-6 alkylamino, C1-6 alkyl, C1-6 alkoxy,

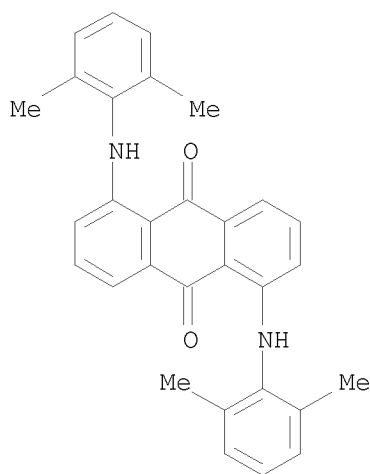
phenoxy, acylamino, C1-6 thioalkyl, or thiophenyl; Ring B may be substituted with Q at 5- or 8-positions] are manufactured by reaction of 1-chloro-, 1-nitro-, or 1-sulfoanthraquinone with 1 equiv of 2,4,6-trialkylanilines or reaction of 1,5- or 1,8-dichloro-, 1,5- or 1,8-dinitro-, or 1,5- or 1,8-disulfoanthraquinone with 2 equiv of 2,4,6-trialkylanilines in the presence of alkali acetate, Cu, and/or Cu salts and optionally organic solvents.. Thus, condensation of 1-chloroanthraquinone with mesidine in the presence of Ca(OAc)₂, Cu, and CuCl gave a coloring agent, which was kneaded with polyamide 6 granules to give colored granules showing good light fastness.

IT 37780-72-6P 348574-64-1P 348574-65-2P
348574-66-3P 348574-67-4P 348574-74-3P
348574-88-9P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses)
(manufacture of anthraquinone pigments for coloration of synthetic resins)

RN 37780-72-6 HCAPLUS

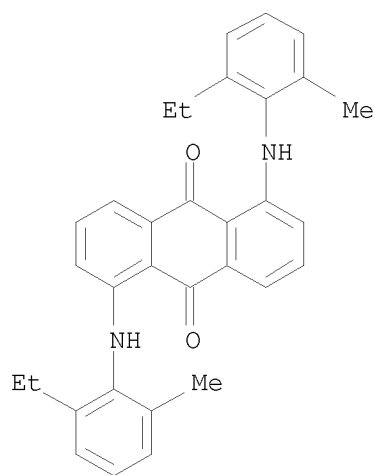
CN 9,10-Anthracenedione, 1,5-bis[(2,6-dimethylphenyl)amino]- (9CI) (CA INDEX NAME)



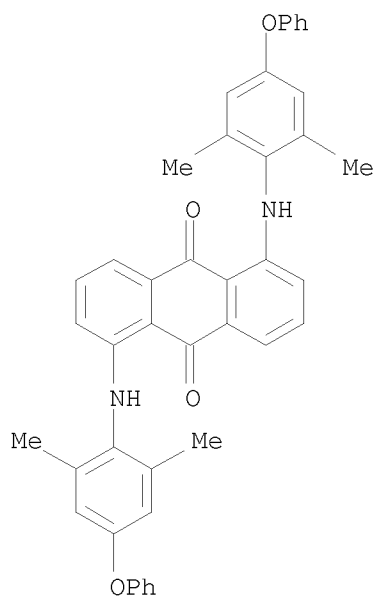
RN 348574-64-1 HCAPLUS

CN 9,10-Anthracenedione, 1,5-bis[(2-ethyl-6-methylphenyl)amino]- (9CI) (CA INDEX NAME)

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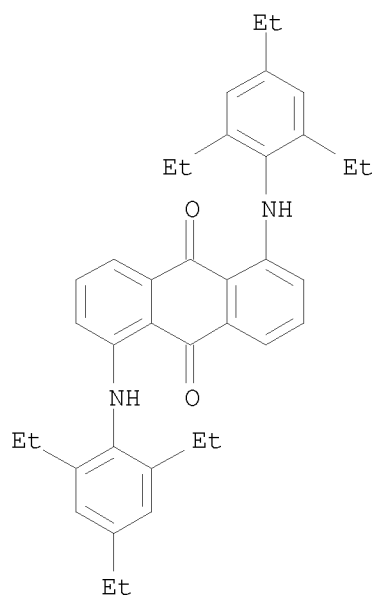


RN 348574-65-2 HCAPLUS
CN 9,10-Anthracenedione, 1,5-bis[(2,6-dimethyl-4-phenoxyphenyl)amino]- (9CI)
(CA INDEX NAME)

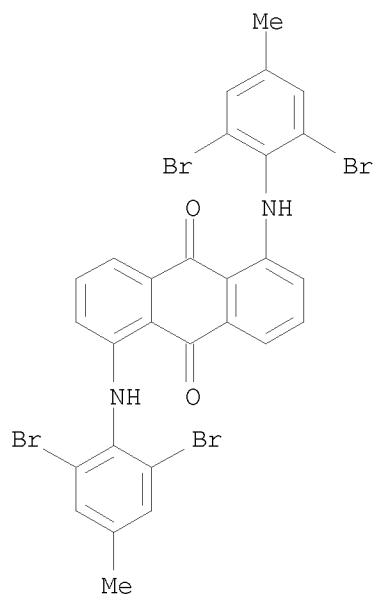


RN 348574-66-3 HCAPLUS
CN 9,10-Anthracenedione, 1,5-bis[(2,4,6-triethylphenyl)amino]- (9CI) (CA
INDEX NAME)

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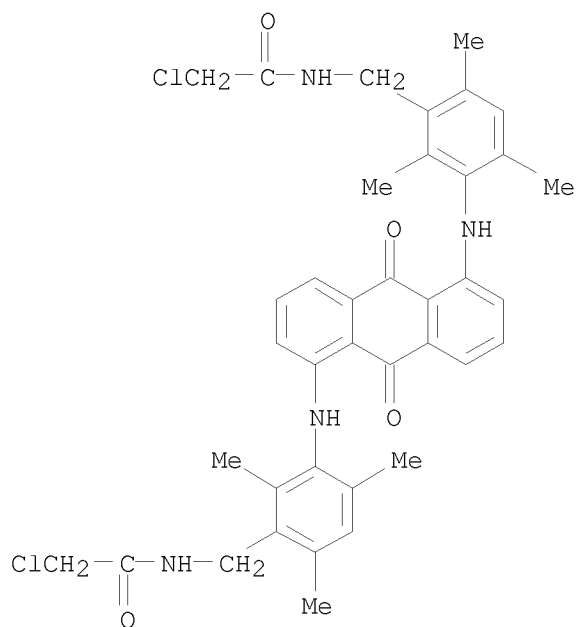


RN 348574-67-4 HCAPLUS
CN 9,10-Anthracenedione, 1,5-bis[(2,6-dibromo-4-methylphenyl)amino]- (9CI)
(CA INDEX NAME)



RN 348574-74-3 HCAPLUS
CN Acetamide, N,N'-[(9,10-dihydro-9,10-dioxo-1,5-anthracenediyl)bis[imino(2,4,6-trimethyl-3,1-phenylene)methylene]]bis[2-chloro- (9CI) (CA INDEX NAME)

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RN 348574-88-9 HCAPLUS

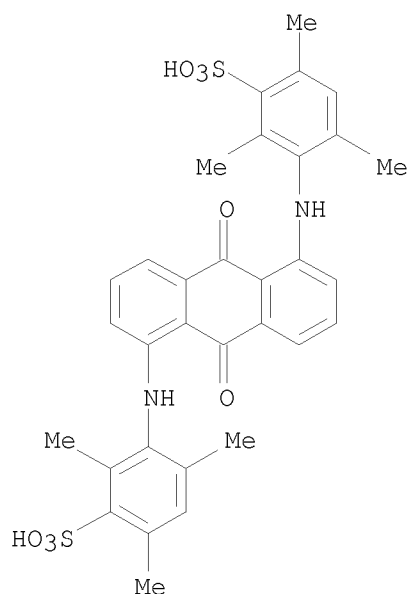
CN Benzenesulfonic acid, 3,3'-[(9,10-dihydro-9,10-dioxo-1,5-anthracenediyl)diimino]bis[2,4,6-trimethyl-, compd. with 1,6-hexanediamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 348574-87-8

CMF C32 H30 N2 O8 S2

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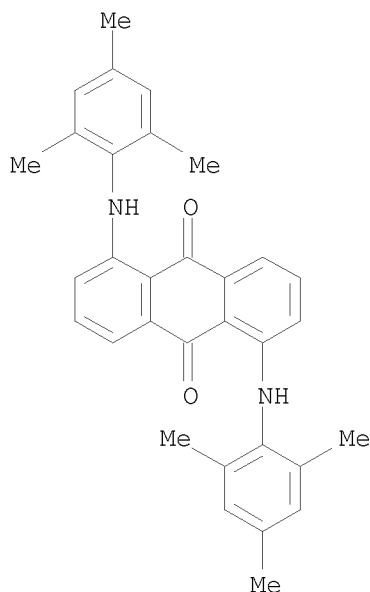


CM 2

CRN 124-09-4
CMF C6 H16 N2

H₂N—(CH₂)₆—NH₂

IT 75333-01-6P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(manufacture of anthraquinone pigments for coloration of synthetic resins)
RN 75333-01-6 HCAPLUS
CN 9,10-Anthracenedione, 1,5-bis[(2,4,6-trimethylphenyl)amino]- (9CI) (CA INDEX NAME)



L16 ANSWER 2 OF 57 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:648178 HCAPLUS

DOCUMENT NUMBER: 123:85966

TITLE: Process and catalysts for the preparation of anthraquinonamine vat dye precursors and dyes

INVENTOR(S): Bergmann, Udo; Hoch, Helmut; Kilburg, Heike; Kohlhaupt, Reinhold; Niedenbrueck, Matthias

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

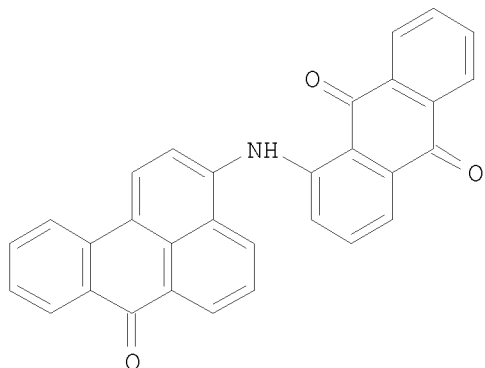
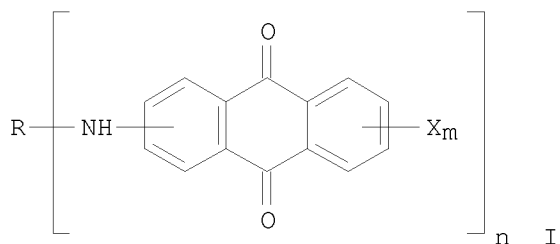
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 649833	A1	19950426	EP 1994-116049	19941012 <--
EP 649833	B1	19960228		
R: CH, DE, FR, GB, IT, LI				
JP 07157673	A	19950620	JP 1994-251044	19941017 <--
US 5525743	A	19960611	US 1994-328948	19941021 <--
PRIORITY APPLN. INFO.:			DE 1993-4335975	A 19931021
OTHER SOURCE(S):	MARPAT	123:85966		
GI				



AB The title compds. [I; R = Ph, (un)substituted anthraquinonyl, (un)substituted benzanthranyl, (un)substituted pyranthranyl, etc.; X = halogen, hydroxy, (un)substituted amino, (un)substituted benzoylamino, etc.; m = 0-4; n = 1-4], useful as either anthraquinoidal vat dye precursors or dyes (no data), are prepared by the condensation of an amino group-containing anthraquinone compound with a haloarom. compound in the presence

of a Cu catalyst and acid-binding compound in an alkyl benzoate solvent. Thus, 3-bromobenzanthrone was condensed with 1-aminoanthraquinone in the presence of PhCO₂Me, Cu powder, and anhydrous Na₂CO₃ at 200°, producing anthraquinonamine, II, a precursor of C. I. Vat Green 3 (no data).

IT 117-03-3P 14608-27-6P 94349-29-8P
164348-47-4P

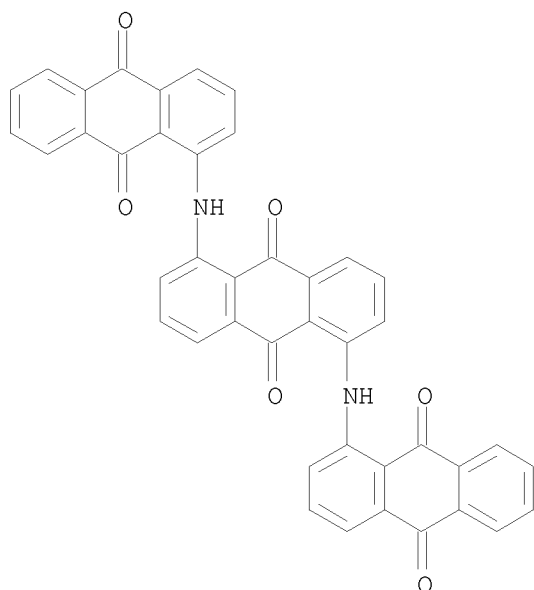
RL: SPN (Synthetic preparation); PREP (Preparation)

(process and catalysts for the preparation of anthraquinonamine vat dye precursors and dyes)

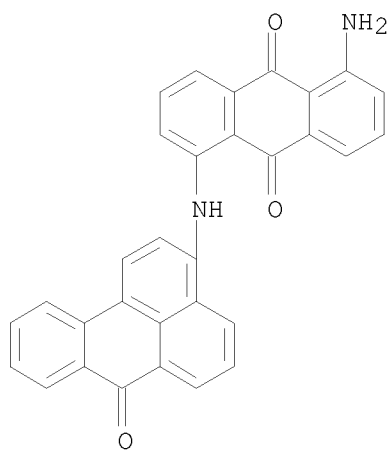
RN 117-03-3 HCAPLUS

CN 9,10-Anthracenedione, 1,5-bis[(9,10-dihydro-9,10-dioxo-1-anthracenyl)amino]- (CA INDEX NAME)

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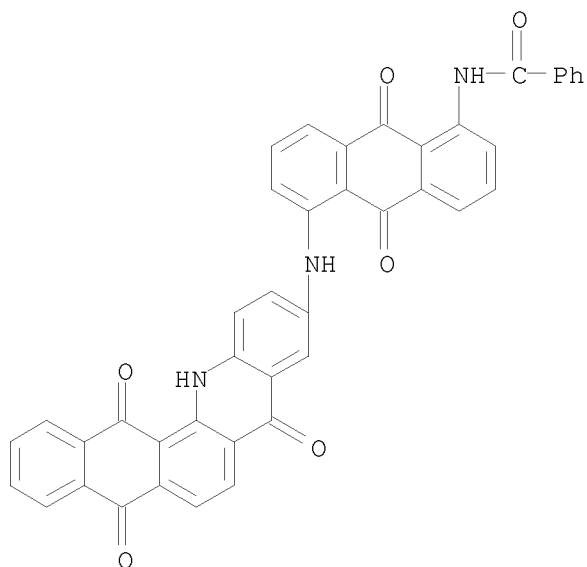


RN 14608-27-6 HCAPLUS
CN 9,10-Anthracenedione, 1-amino-5-[(7-oxo-7H-benz[de]anthracen-3-yl)amino]-
(9CI) (CA INDEX NAME)

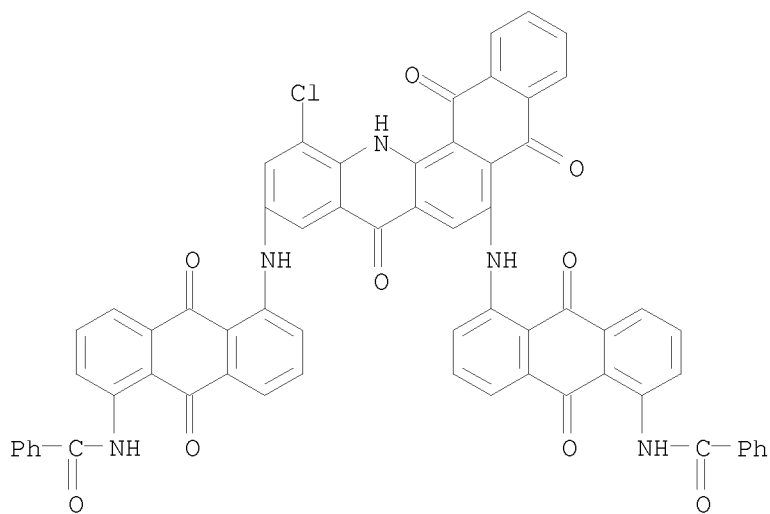


RN 94349-29-8 HCAPLUS
CN Benzamide, N-[9,10-dihydro-9,10-dioxo-5-[(5,8,13,14-tetrahydro-5,8,14-
trioxonaphth[2,3-c]acridin-10-yl)amino]-1-anthracenyl]- (9CI) (CA INDEX
NAME)

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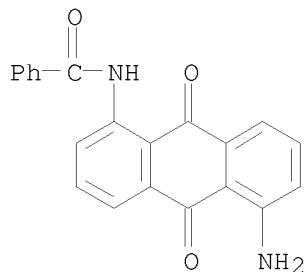


RN 164348-47-4 HCAPLUS
 CN Benzamide, N,N'-[(1-chloro-5,8,13,14-tetrahydro-5,8,13-trioxonaphth[2,3-c]acridine-3,7-diyl)bis[imino(9,10-dihydro-9,10-dioxo-5,1-anthracenediyl)]]bis- (9CI) (CA INDEX NAME)

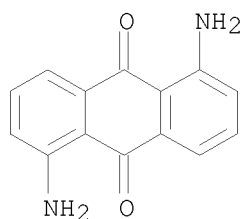


IT 117-06-6, 1-Amino-5-benzoylaminoanthraquinone 129-44-2,
 1,5-Diaminoanthraquinone
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (process and catalysts for the preparation of anthraquinonamine vat dye
 precursors and dyes from)
 RN 117-06-6 HCAPLUS
 CN Benzamide, N-(5-amino-9,10-dihydro-9,10-dioxo-1-anthracenyl)- (CA INDEX
 NAME)

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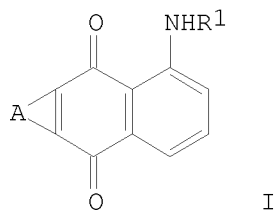


RN 129-44-2 HCAPLUS
CN 9,10-Anthracenedione, 1,5-diamino- (CA INDEX NAME)



L16 ANSWER 3 OF 57 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:508266 HCAPLUS
DOCUMENT NUMBER: 121:108266
TITLE: Process for the preparation of anthraquinones
INVENTOR(S): Ebel, Klaus; Schroeder, Juergen
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 597287	A1	19940518	EP 1993-116939	19931020 <--
EP 597287	B1	19960410		
R: BE, DE, FR, GB, NL				
DE 4238045	A1	19940519	DE 1992-4238045	19921111 <--
US 5387704	A	19950207	US 1993-150363	19931109 <--
PRIORITY APPLN. INFO.:			DE 1992-4238045	A 19921111
OTHER SOURCE(S):	MARPAT	121:108266		
GI				

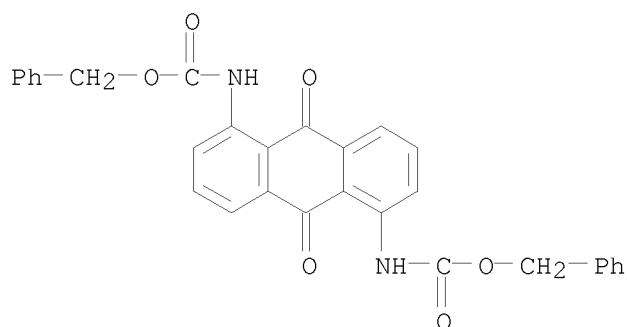


AB The title compds. [I; A = (R3)C:C(R4)C(R5):C(R6), CH:CHCH:CNHCO2R2; R1 = H, :O; R2 = C1-8 alkyl, C7-20 alkyl; R3-R6 = H, C1-8 alkyl, C7-20 phenylalkyl, C1-8 alkoxy, NO2, CN, halogen etc.], useful as dye intermediates (no data), are prepared by the reaction of N-butadienylcarbamide acid esters H2C:CHCH:CNHCO2R2 with 1,4-naphthoquinones or 1,4-benzoquinones, resp., at 0-150° and the intermediate reacted in a tert-amine with O-containing gases in the presence of Cu salts. The obtained carbamoylanthraquinones may optionally be hydrolyzed with hydroxide solns. at 0-150°.

IT 156765-00-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (high-yield preparation of)

RN 156765-00-3 HCAPLUS

CN Carbamic acid, (9,10-dihydro-9,10-dioxo-1,5-anthracenediyl)bis-, bis(phenylmethyl) ester (9CI) (CA INDEX NAME)



L16 ANSWER 4 OF 57 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:410853 HCAPLUS

DOCUMENT NUMBER: 115:10853

TITLE: Anthraquinone dyes having alkylsulfonylamino substituents

INVENTOR(S): Smith, Terrance P.; Zaklika, Krzysztof A.

PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co., USA

SOURCE: Eur. Pat. Appl., 12 pp.
 CODEN: EPXXDW

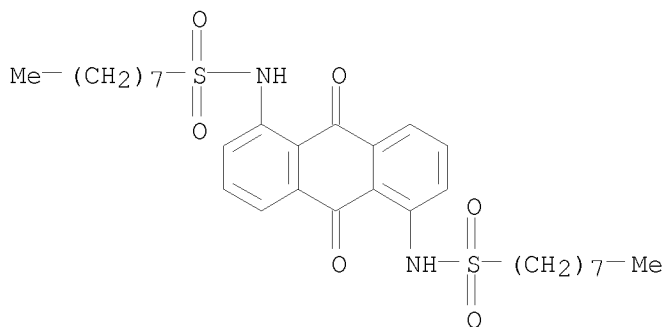
DOCUMENT TYPE: Patent

LANGUAGE: English

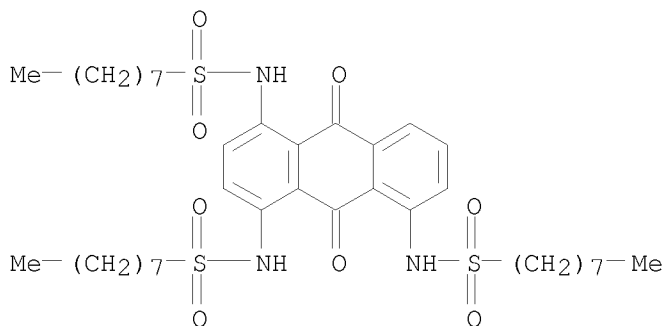
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 409638	A1	19910123	EP 1990-307940	19900720 <--
EP 409638	B1	19940831		
R: DE, FR, GB, IT				
US 5034547	A	19910723	US 1989-384157	19890721 <--
CA 2019545	A1	19910121	CA 1990-2019545	19900621 <--
JP 03059076	A	19910314	JP 1990-192836	19900720 <--
PRIORITY APPLN. INFO.:			US 1989-384157	A 19890721
OTHER SOURCE(S): MARPAT 115:10853				
GI	For diagram(s), see printed CA Issue.			
AB	Solvent-soluble dyes I [R1 = C ₂ (un)substituted alkyl without α halogen; R2-R4 = any group other than auxochromic groups] have lower m.p. and excellent lightfastness, and are useful in thermal-transfer printing. Thus, 1-chloroanthraquinone was heated with 1-octanesulfonamide in the presence of Cu acetate and K ₂ CO ₃ in o-dichlorobenzene at reflux for 2.5 h, producing yellow 1-(octylsulfonylamino)anthraquinone.			
IT	133119-48-9P 133119-50-3P 134318-88-0P			
	RL: PREP (Preparation) (manufacture of, as solvent-soluble dye)			
RN	133119-48-9 HCAPLUS			
CN	1-Octanesulfonamide, N,N'-(9,10-dihydro-9,10-dioxo-1,5-anthracenediyl)bis- (9CI) (CA INDEX NAME)			



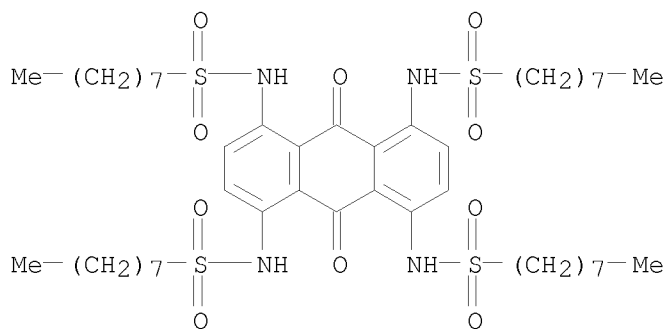
RN 133119-50-3 HCAPLUS
 CN 1-Octanesulfonamide, N,N',N''-(9,10-dihydro-9,10-dioxo-1,4,5-anthracenetriyl)tris- (9CI) (CA INDEX NAME)



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RN 134318-88-0 HCAPLUS

CN 1-Octanesulfonamide, N,N',N'',N'''-(9,10-dihydro-9,10-dioxo-1,4,5,8-anthracenetetrayl)tetrakis- (9CI) (CA INDEX NAME)



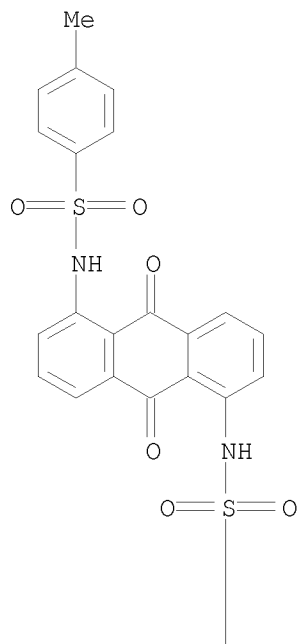
IT 79285-23-7

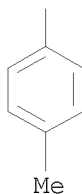
RL: PRP (Properties)
(solubility of, in Bu acetate)

RN 79285-23-7 HCAPLUS

CN Benzenesulfonamide, N,N'-(9,10-dihydro-9,10-dioxo-1,5-anthracenediyl)bis[4-methyl- (9CI) (CA INDEX NAME)

PAGE 1-A

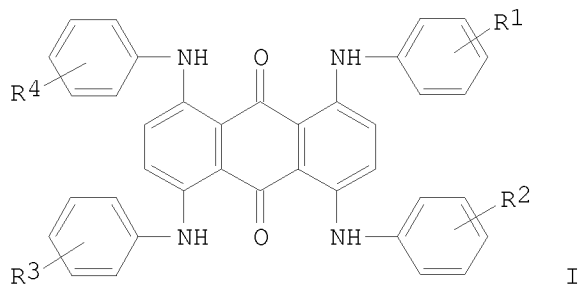




L16 ANSWER 5 OF 57 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1990:8710 HCAPLUS
 DOCUMENT NUMBER: 112:8710
 TITLE: Halogenated anthraquinones useful as near
 infrared-absorbing dyes and their preparation
 INVENTOR(S): Ohyamata, Tsukasa; Takuma, Keisuke; Kuroda, Shizuo;
 Aiga, Hiroshi
 PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Inc., Japan
 SOURCE: Eur. Pat. Appl., 7 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 323184	A1	19890705	EP 1988-312285	19881223 <--
EP 323184	B1	19940309		
R: CH, DE, FR, GB, LI, NL				
JP 01172458	A	19890707	JP 1987-330163	19871228 <--
JP 08013930	B	19960214		
CA 1321790	C	19930831	CA 1988-586468	19881220 <--
US 5342974	A	19940830	US 1988-291028	19881228 <--
			JP 1987-330163	A 19871228

PRIORITY APPLN. INFO.:
 OTHER SOURCE(S): MARPAT 112:8710
 GI



AB The title dyes I (R1-R4 = H, halogen, lower alkyl, cycloalkyl, lower alkoxy, CF3, PhO, OH; such that ≥1 of R1-R4 is halogen), which have very high near-IR absorption and are thus useful as organic filters for semiconductor laser-containing measuring apparatus, are prepared by reacting

1,4,5,8-tetrachloroanthraquinone (II) with a ≥ 4 -fold molar excess of an appropriately substituted PhNH_2 in the presence of a catalytically effective amount of Cu ions, a salt of an aliphatic carboxylic acid (e.g., KOAc), and PhCH_2OH or its derivs. at elevated temps. In this manner, II 10.87, p-toluidine 27.2, 4- $\text{ClC}_6\text{H}_4\text{NH}_2$ 31.3, KOAc 13.4, CuSO_4 1.24, and PhCH_2OH 3.41 parts were heated to 130° under N for 6.5 h, forming 1-(4-chloroanilino)-4,5,8-tris(4-methylanilino)anthraquinone, which had 99% transmittance (CHCl_3) at 860 nm.

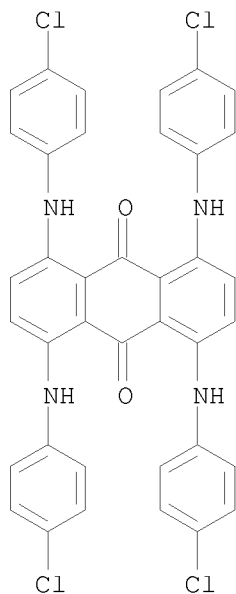
IT 109059-57-6P 121208-10-4P, 1-(4-Chloroanilino)-4,5,8-tris(4-methylanilino)anthraquinone 124252-44-4P, 1-(4-Chloroanilino)-4,5,8-tris(4-butylanilino)anthraquinone 124252-45-5P, 1,4-Bis(4-chloroanilino)-5,8-bis(4-methylanilino)anthraquinone 124252-46-6P 124252-47-7P 124252-48-8P 124252-49-9P 124252-50-2P 124252-51-3P 124252-52-4P 124252-53-5P 124252-54-6P

RL: PREP (Preparation)

(manufacture of, as near IR-absorbing dye)

RN 109059-57-6 HCAPLUS

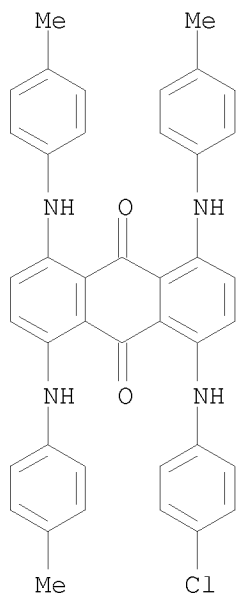
CN 9,10-Anthracenedione, 1,4,5,8-tetrakis[(4-chlorophenyl)amino]- (9CI) (CA INDEX NAME)



RN 121208-10-4 HCAPLUS

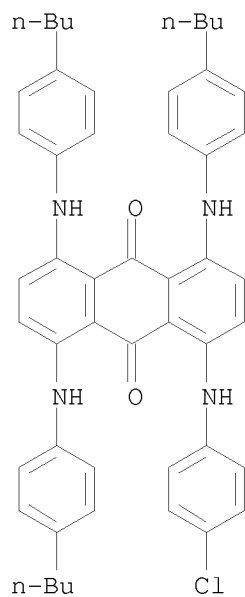
CN 9,10-Anthracenedione, 1-[(4-chlorophenyl)amino]-4,5,8-tris[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)

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RN 124252-44-4 HCAPLUS

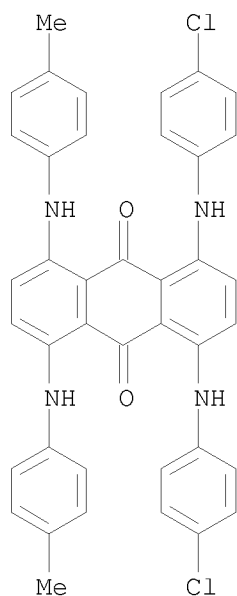
CN 9,10-Anthracenedione, 1,4,5-tris[(4-butylphenyl)amino]-8-[(4-chlorophenyl)amino]- (9CI) (CA INDEX NAME)



RN 124252-45-5 HCAPLUS

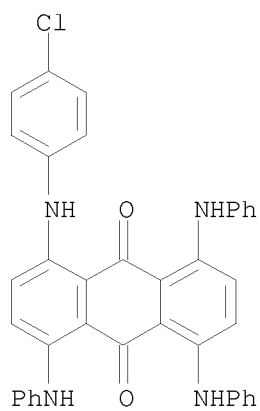
CN 9,10-Anthracenedione, 1,4-bis[(4-chlorophenyl)amino]-5,8-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)

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RN 124252-46-6 HCAPLUS

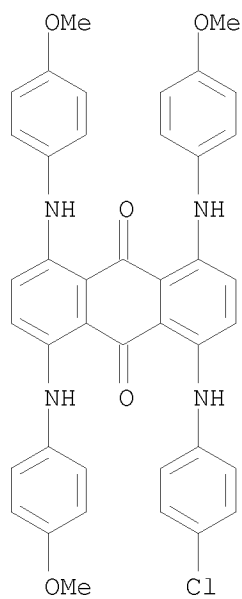
CN 9,10-Anthracenedione, 1-[(4-chlorophenyl)amino]-4,5,8-tris(phenylamino)-
(9CI) (CA INDEX NAME)



RN 124252-47-7 HCAPLUS

CN 9,10-Anthracenedione, 1-[(4-chlorophenyl)amino]-4,5,8-tris[(4-
methoxyphenyl)amino]- (9CI) (CA INDEX NAME)

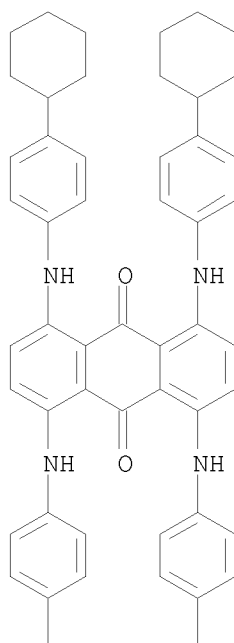
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RN 124252-48-8 HCAPLUS

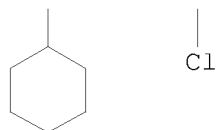
CN 9,10-Anthracenedione, 1-[(4-chlorophenyl)amino]-4,5,8-tris[(4-cyclohexylphenyl)amino]- (9CI) (CA INDEX NAME)

PAGE 1-A



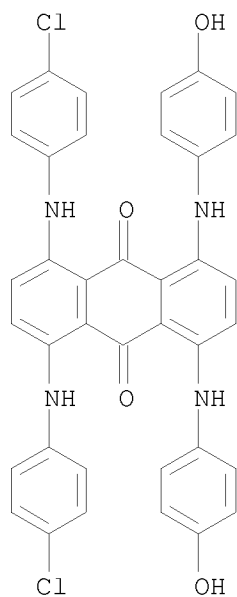
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PAGE 2-A



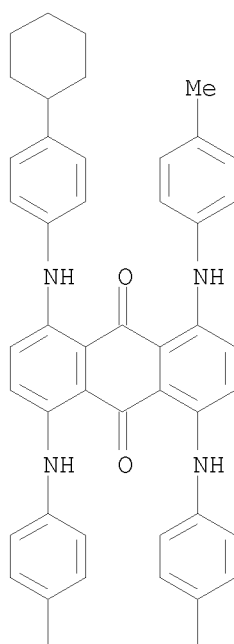
RN 124252-49-9 HCAPLUS

CN 9,10-Anthracenedione, 1,4-bis[(4-chlorophenyl)amino]-5,8-bis[(4-hydroxyphenyl)amino]- (9CI) (CA INDEX NAME)



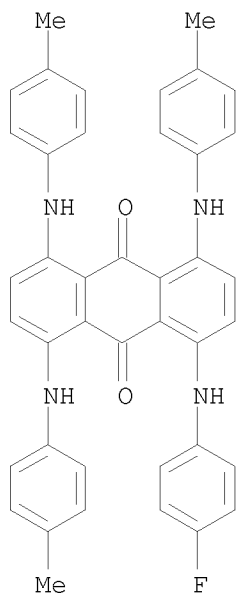
RN 124252-50-2 HCAPLUS

CN 9,10-Anthracenedione, 1-[(4-chlorophenyl)amino]-5-[(4-cyclohexylphenyl)amino]-4,8-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)



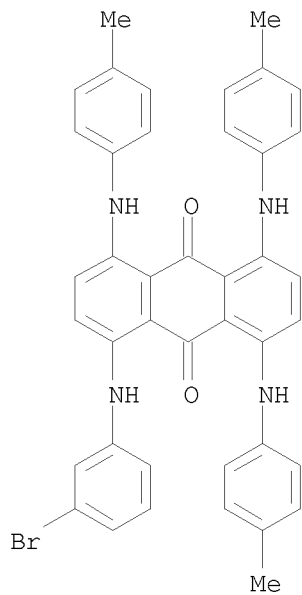
RN 124252-51-3 HCAPLUS
CN 9,10-Anthracenedione, 1-[(4-fluorophenyl)amino]-4,5,8-tris[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)

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RN 124252-52-4 HCAPLUS

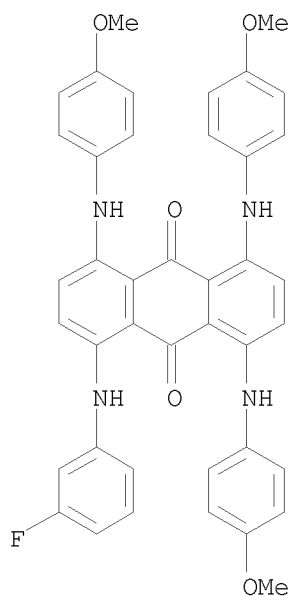
CN 9,10-Anthracenedione, 1-[(3-bromophenyl)amino]-4,5,8-tris[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)



RN 124252-53-5 HCAPLUS

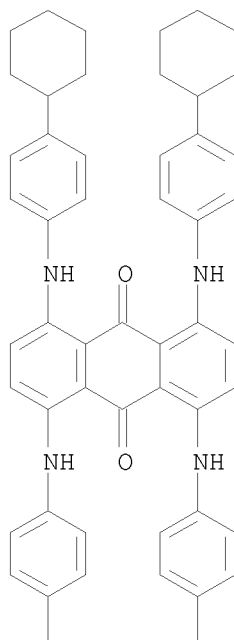
CN 9,10-Anthracenedione, 1-[(3-fluorophenyl)amino]-4,5,8-tris[(4-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)

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RN 124252-54-6 HCAPLUS
CN 9,10-Anthracenedione, 1-[(4-bromophenyl)amino]-4,5-bis[(4-cyclohexylphenyl)amino]-8-[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)

PAGE 1-A



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L16 ANSWER 6 OF 57 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1988:222289 HCAPLUS
 DOCUMENT NUMBER: 108:222289
 TITLE: Polyamic acids or esters and polyimides from
 9,10-dihydroanthracenediamines
 INVENTOR(S): Pfeifer, Josef; Duthaler, Rudolf
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
 SOURCE: Eur. Pat. Appl., 20 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 253765	A1	19880120	EP 1987-810357	19870624 <--
EP 253765	B1	19900418		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
US 4847359	A	19890711	US 1987-63881	19870619 <--
CA 1281481	C	19910312	CA 1987-540662	19870626 <--
BR 8703288	A	19880315	BR 1987-3288	19870629 <--
JP 63039925	A	19880220	JP 1987-161390	19870630 <--
PRIORITY APPLN. INFO.:		CH 1986-2618	A	19860630

AB The title polymers, with good resistance to heat and thermal oxidation, are prepared from aromatic tetracarboxylic acid derivs. and diamines containing ≥ 5 mol% 9,10-dihydroanthracenediamines, optionally bearing 1-4 alkyl, cycloalkyl, aralkyl, aryl, or halogen groups. Stirring 0.84 g 9,10-dihydro-1,5-anthracenediamine [prepared (20.5 g) by reduction of 100 g 1,5-diaminoanthraquinone with Zn-NaOH and catalytic hydrogenation of the intermediate], 0.73 g 2,4-toluenediamine, and 3.22 g 3,3',4,4'-benzophenonetetracarboxylic dianhydride in 39 mL N-methylpyrrolidone for 5 h and cyclizing with Ac₂O-Et₃N gave a polyimide with inherent viscosity 0.72 dL/g, glass temperature 334°, and weight loss in 1 h at 400° 1.9%. A 1-2 μ film on Cu was exposed through a Stouffer wedge mask to a 1-kW UV lamp for 30 s, developed, and etched with FeCl₃, giving an image with Stouffer sensitivity 5.

IT 114540-02-2P
 RL: PREP (Preparation)
 (heat-resistant and photosensitive, manufacture of)

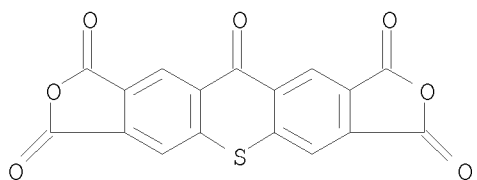
RN 114540-02-2 HCAPLUS

CN 1H-Thiopyrano[2,3-f:5,6-f']diisobenzofuran-1,3,7,9,11-pentone, polymer with 1,5-diamino-9,10-anthracenedione and 4-methyl-1,3-benzenediamine (9CI) (CA INDEX NAME)

CM 1

CRN 107688-72-2
 CMF C17 H4 O7 S

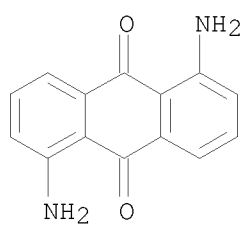
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CM 2

CRN 129-44-2

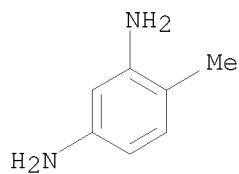
CMF C14 H10 N2 O2



CM 3

CRN 95-80-7

CMF C7 H10 N2

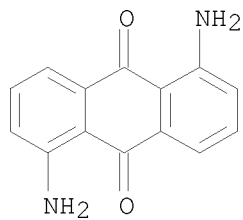


IT 129-44-2P

RL: PREP (Preparation)
(preparation of)

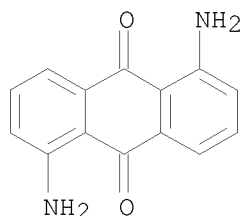
RN 129-44-2 HCAPLUS

CN 9,10-Anthracenedione, 1,5-diamino- (CA INDEX NAME)



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IT 129-44-2, 1,5-Diaminoanthraquinone
RL: RCT (Reactant); RACT (Reactant or reagent)
(reduction of)
RN 129-44-2 HCAPLUS
CN 9,10-Anthracenedione, 1,5-diamino- (CA INDEX NAME)



L16 ANSWER 7 OF 57 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1986:628508 HCAPLUS
DOCUMENT NUMBER: 105:228508
TITLE: Anthraquinone imide compounds
INVENTOR(S): Blattner, Rudolf
PATENT ASSIGNEE(S): Ciba-Geigy A.-G. , Switz.
SOURCE: Eur. Pat. Appl., 5 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 199670	A2	19861029	EP 1986-810141	19860325 <--
EP 199670	A3	19870204		
EP 199670	B1	19890614		
R: CH, DE, FR, GB, LI				
US 4701281	A	19871020	US 1986-844408	19860326 <--
JP 61258866	A	19861117	JP 1986-72638	19860401 <--
JP 03054992	B	19910821		

PRIORITY APPLN. INFO.: CH 1985-1400 A 19850401

AB Anthraquinone imide dyes are prepared by condensation of an anthraquinone compound containing ≥ 1 primary amino group with an aromatic halogen compound in an organic solvent, in presence of base and a Cu catalyst, by quickly heating to 140-250°. The compds. are useful dyes for cotton. Thus, 1-chloroanthraquinone 122, 1,4-diaminoanthraquinone 60, Na2CO3 50, and CuCl 1.5 g were mixed in 500 mL PhNO2 at room temperature

During

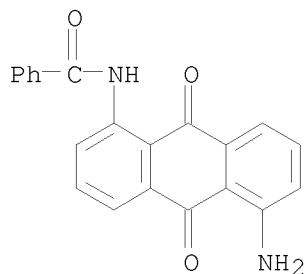
1.5 h this suspension was added to a boiling suspension of 10 g Na2CO3, 0.5 g CuCl, and 50 mL PhNO2 (210-215°). After an addnl. 2.5 h at this temperature the reaction mixture was worked up to give 170 g

trianthrimide.

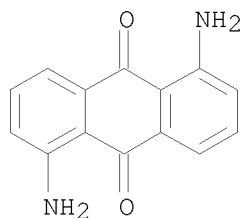
IT 117-06-6 129-44-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation of, with aromatic halides)
RN 117-06-6 HCAPLUS
CN Benzamide, N-(5-amino-9,10-dihydro-9,10-dioxo-1-anthracenyl)- (CA INDEX

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NAME)



RN 129-44-2 HCAPLUS
CN 9,10-Anthracenedione, 1,5-diamino- (CA INDEX NAME)



L16 ANSWER 8 OF 57 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1986:35464 HCAPLUS
DOCUMENT NUMBER: 104:35464
TITLE: Anthraquinone imide compounds
INVENTOR(S): Dill, Bernd
PATENT ASSIGNEE(S): Ciba-Geigy A.-G. , Switz.
SOURCE: Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 136981	A2	19850410	EP 1984-810478	19841001 <--
EP 136981	A3	19860319		
EP 136981	B1	19890405		
R: CH, DE, FR, GB, LI				
CH 657357	A5	19860829	CH 1983-5432	19831006 <--
US 4659831	A	19870421	US 1984-657104	19841002 <--
JP 60096656	A	19850530	JP 1984-208403	19841005 <--
JP 04081628	B	19921224		
PRIORITY APPLN. INFO.:			CH 1983-5432	A 19831006
			SE 1983-5432	A 19831006
OTHER SOURCE(S): CASREACT 104:35464; MARPAT 104:35464				
AB Vat dye intermediates are prepared by reaction of aminoanthraquinones with				

of a aromatic halides in an organic solvent at elevated temperature in the presence

base and a Cu catalyst to 60-95% conversion, followed by raising the temperature by 5-60° to increase the yield and quality of the product. Thus, 600 parts 3,8-dibromobenzanthrone was mixed with 705 parts 1-aminoanthraquinone in 5000 parts PhNO₂ at 80°, treated with 250 parts Na₂CO₃ and 7 parts CuCl, heated to 190°, treated with 7 parts CuCl, and heated at 210° for 3 h. The mixture was then heated to 225° for 2 h to give the bis(anthraquinonylamino)benzanthrone in 100% yield (based on dibromobenzanthrone), which could be cyclized to an olive green vat dye for cotton by alkali fusion. In the absence of the treatment step at 225° the yield was reduced, the product was contaminated with 1:1 condensation product, and the resulting vat dye gave lighter coloration and showed poorer polyester reserve properties.

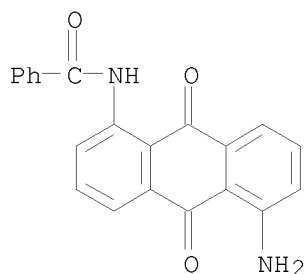
IT 117-06-6 129-44-2

RL: USES (Uses)

(condensation of, with aromatic halides, two-stage)

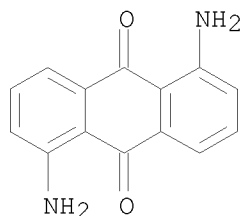
RN 117-06-6 HCAPLUS

CN Benzamide, N-(5-amino-9,10-dihydro-9,10-dioxo-1-anthracenyl)- (CA INDEX NAME)



RN 129-44-2 HCAPLUS

CN 9,10-Anthracenedione, 1,5-diamino- (CA INDEX NAME)



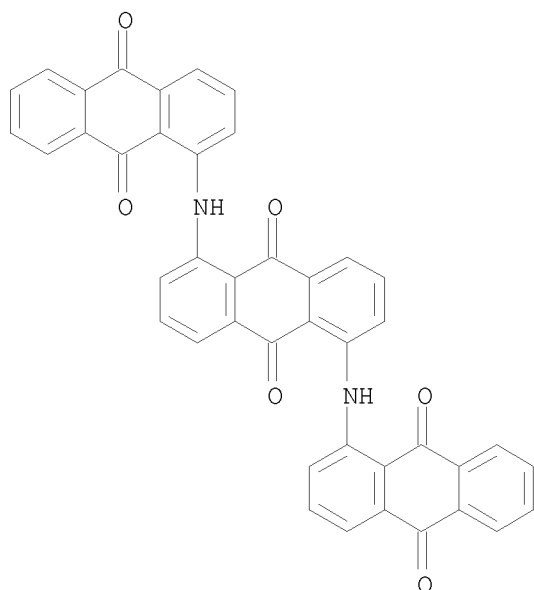
IT 117-03-3P

RL: PREP (Preparation)

(manufacture of, in two stages, as intermediate for vat dyes)

RN 117-03-3 HCAPLUS

CN 9,10-Anthracenedione, 1,5-bis[(9,10-dihydro-9,10-dioxo-1-anthracenyl)amino]- (CA INDEX NAME)



L16 ANSWER 9 OF 57 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1984:482890 HCAPLUS

DOCUMENT NUMBER: 101:82890

TITLE: Dye-coated metal powders and plastic magnets
impregnated with a dye-coated metallic magnet powder

INVENTOR(S): Tsuchida, Michinori; Shimizu, Toshihide; Kaneko,
Ichiro; Abe, Tokuji

PATENT ASSIGNEE(S): Shin-Etsu Chemical Industry Co., Ltd. , Japan

SOURCE: Eur. Pat. Appl., 39 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 111331	A2	19840620	EP 1983-112415	19831209 <--
EP 111331	A3	19860625		
EP 111331	B1	19880601		
R: CH, DE, FR, GB, LI, NL				
JP 59110783	A	19840626	JP 1982-219600	19821214 <--
JP 62029483	B	19870626		
JP 59179638	A	19841012	JP 1983-56333	19830331 <--
JP 63006587	B	19880210		
US 4543382	A	19850924	US 1983-561552	19831214 <--
PRIORITY APPLN. INFO.:			JP 1982-219600	A 19821214
			JP 1983-56333	A 19830331

AB The coating of metallic powder using an organic dye, which is used to fabrication plastic magnets and is designed to prevent surface oxidation, is described. The magnetic alloy can be Co-based rare earth alloys, and the magnet is fabricated by using thermoplastic resin such as nylon or

polyphenylene sulfide resin. For example, a metallic powder containing Cu, electrolytic Fe and a Co-rare earth alloy is coated by a dye such as C.I. Solvent Black 7 in a MeOH-toluene solution. The plastic magnet is fabricated using a thermoplastic resin such as polyphenylene sulfide resin.

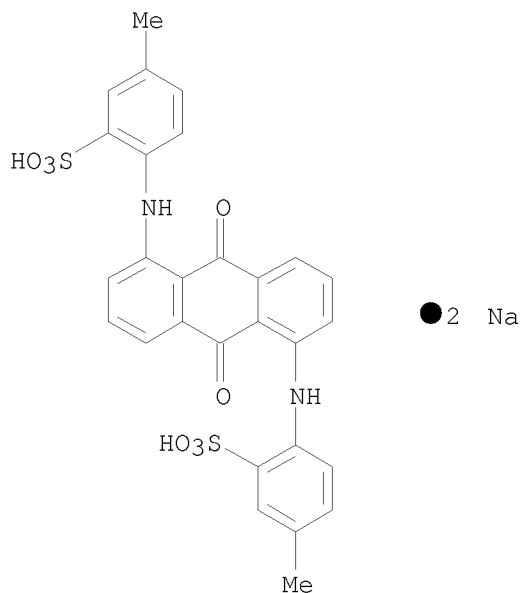
IT 6408-63-5

RL: PRP (Properties)

(cobalt-rare earth alloy magnetic powder coated with, for plastic magnets)

RN 6408-63-5 HCAPLUS

CN Benzenesulfonic acid, 2,2'-[(9,10-dihydro-9,10-dioxo-1,5-anthracenediyl)diimino]bis[5-methyl-, sodium salt (1:2) (CA INDEX NAME)



L16 ANSWER 10 OF 57 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:595567 HCAPLUS

DOCUMENT NUMBER: 99:195567

TITLE: Polyesters containing copolymerized anthraquinone colorants with sulfonamido groups

INVENTOR(S): Davis, Thomas G.; Weaver, Max A.; Giles, Ralph R.

PATENT ASSIGNEE(S): Eastman Kodak Co., USA

SOURCE: U.S., 16 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

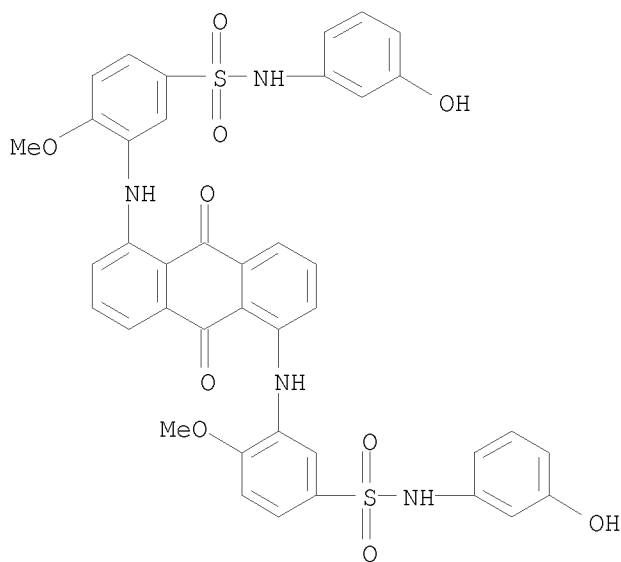
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 4403092	A	19830906	US 1982-443784	19821122 <--
CA 1191298	A1	19850730	CA 1983-438388	19831005 <--
WO 8402136	A2	19840607	WO 1983-US1834	19831121 <--

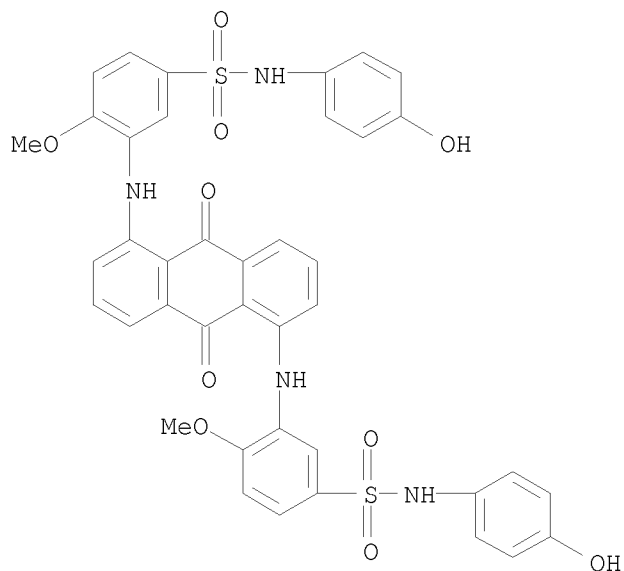
WO 8402136 A3 19840802
W: JP
RW: BE, DE, FR, GB, NL
EP 125311 A1 19841121 EP 1984-900190 19831121 <--
EP 125311 B1 19880120
R: BE, DE, FR, GB, NL
JP 60500335 T 19850314 JP 1984-500359 19831121 <--
JP 06206990 A 19940726 JP 1993-301946 19931201 <--
JP 08003054 B 19960117
PRIORITY APPLN. INFO.: US 1982-443784 A 19821122
WO 1983-US1834 W 19831121
AB Diol-containing anthraquinone dyes containing ≥ 1 sulfonamido groups are prepared and used to prepare lightfast colored polyesters. Thus, 1,5-dichloroanthraquinone [82-46-2] 55.4, o-anisidine [90-04-0] 205, KOAc 49.0, and Cu bronze 1 g were heated 3 h at 150-155° to give 81.6 g 1,5-di(o-anisidino)anthraquinone (I) [71417-40-8]. I (22.5 g) and 225 g ClSO₃H were heated 1 h at 40-45° to give 1,5-di(2-methoxy-5-chlorosulfonylanilino)anthraquinone [87855-09-2], 1/5 of which was mixed with 2.6 g 2-aminoethanol [141-43-5] to give a diol (II) [87855-14-9]. A colored polyester [87865-26-7] having inherent viscosity 0.58 (in PhOH/C₂H₂Cl₄) was prepared by mixing 145.5 g di-Me terephthalate, 85.0 g ethylene glycol, 100.0 ppm Ti catalyst, and 100.0 ppm II, heating to 195° for 140 min, and then to 285° at 0.10 mm Hg for 25 min.
IT 87855-10-5 87855-11-6 87855-12-7
87855-13-8 87855-14-9
RL: USES (Uses)
(dyes, copolymerizable, for polyesters)
RN 87855-10-5 HCAPLUS
CN Benzenesulfonamide, 3,3'-[(9,10-dihydro-9,10-dioxo-1,5-anthracenediyl)diimino]bis[N-(3-hydroxyphenyl)-4-methoxy- (9CI) (CA INDEX NAME)



RN 87855-11-6 HCAPLUS

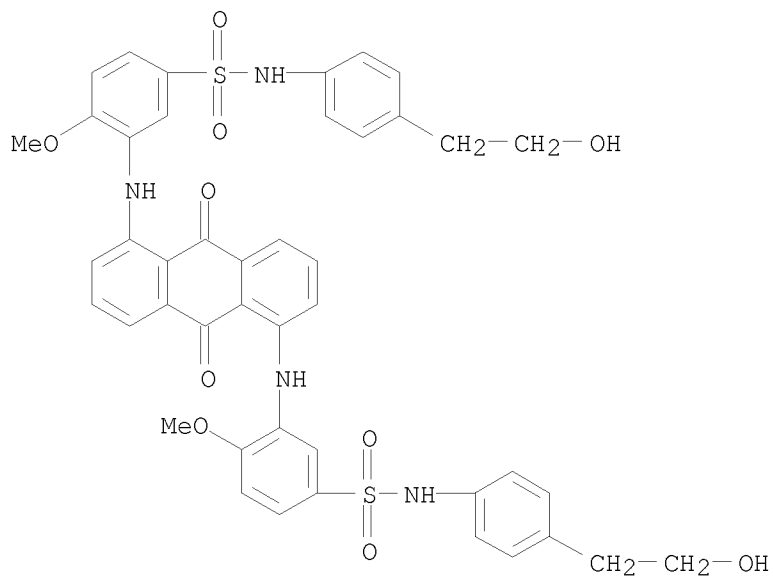
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CN Benzenesulfonamide, 3,3'-[(9,10-dihydro-9,10-dioxo-1,5-anthracenediyl)diimino]bis[N-(4-hydroxyphenyl)-4-methoxy- (9CI) (CA INDEX NAME)



RN 87855-12-7 HCAPLUS

CN Benzenesulfonamide, 3,3'-[(9,10-dihydro-9,10-dioxo-1,5-anthracenediyl)diimino]bis[N-[4-(2-hydroxyethyl)phenyl]-4-methoxy- (9CI) (CA INDEX NAME)

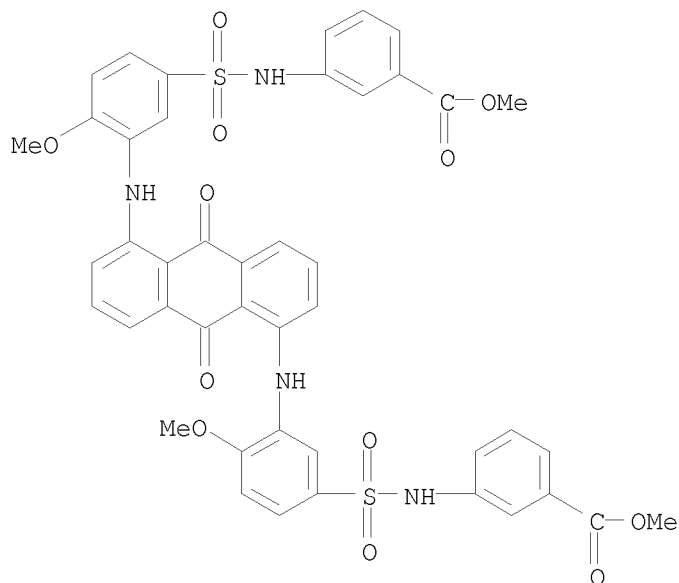


RN 87855-13-8 HCAPLUS

CN Benzoic acid, 3,3'-[(9,10-dihydro-9,10-dioxo-1,5-

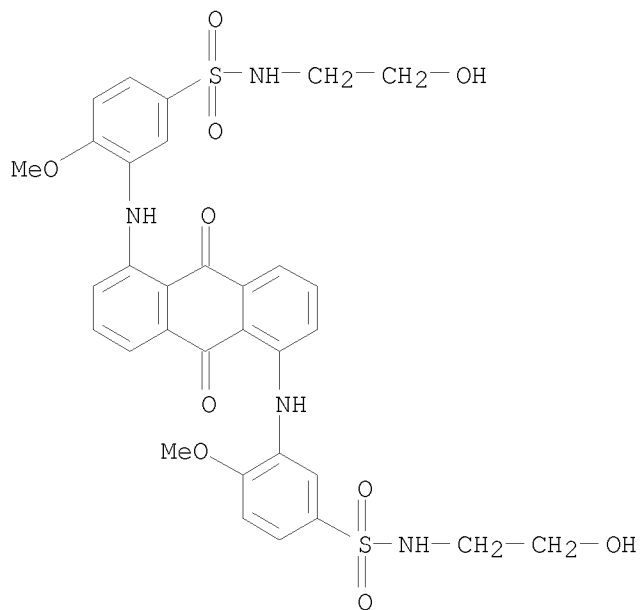
10578677

anthracenediyl)bis[imino(4-methoxy-3,1-phenylene)sulfonylimino]]bis-,
dimethyl ester (9CI) (CA INDEX NAME)



RN 87855-14-9 HCAPLUS

CN Benzenesulfonamide, 3,3'-[(9,10-dihydro-9,10-dioxo-1,5-anthracenediyl)diimino]bis[N-(2-hydroxyethyl)-4-methoxy- (9CI) (CA INDEX NAME)



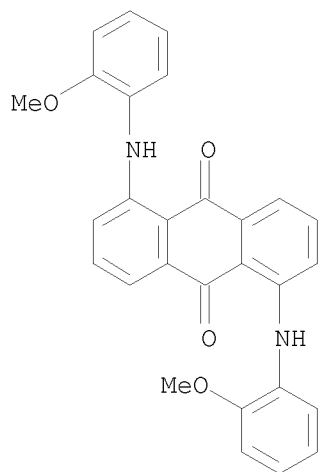
IT 71417-40-8P

10578677

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation and chlorosulfonation of)

RN 71417-40-8 HCAPLUS

CN 9,10-Anthracenedione, 1,5-bis[(2-methoxyphenyl)amino]- (9CI) (CA INDEX NAME)

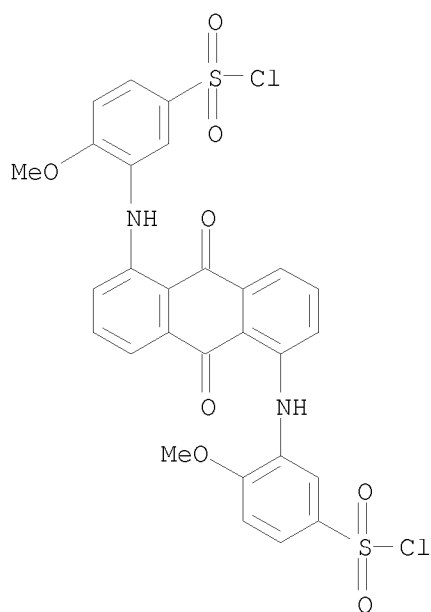


IT 87855-09-2P

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with amino compds.)

RN 87855-09-2 HCAPLUS

CN Benzenesulfonyl chloride, 3,3'-[(9,10-dihydro-9,10-dioxo-1,5-anthracenediyl)diimino]bis[4-methoxy- (9CI) (CA INDEX NAME)

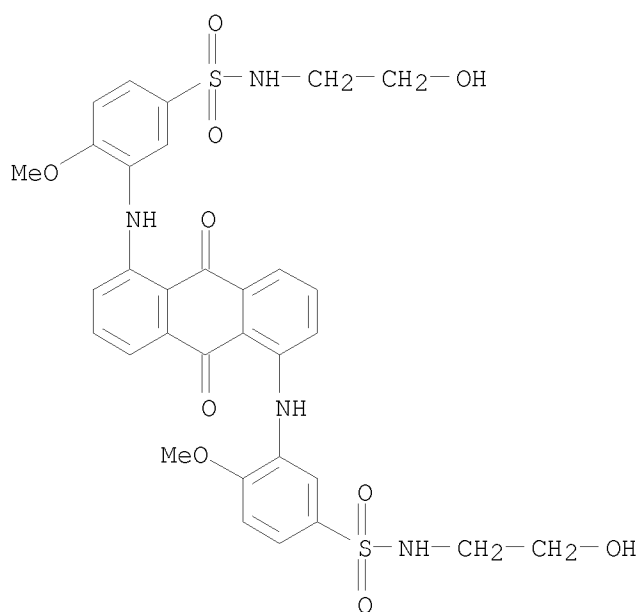


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IT 87865-26-7P
RL: PREP (Preparation)
(preparation of, colored, lightfast)
RN 87865-26-7 HCAPLUS
CN 1,4-Benzenedicarboxylic acid, dimethyl ester, polymer with
3,3'-[(9,10-dihydro-9,10-dioxo-1,5-anthracenediyl)diimino]bis[N-(2-
hydroxyethyl)-4-methoxybenzenesulfonamide] and 1,2-ethanediol (9CI) (CA
INDEX NAME)

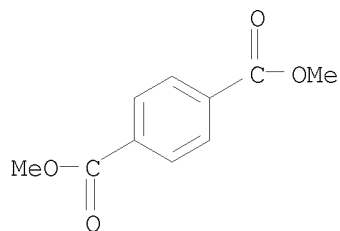
CM 1

CRN 87855-14-9
CMF C32 H32 N4 O10 S2



CM 2

CRN 120-61-6
CMF C10 H10 O4



CM 3

10578677

CRN 107-21-1
CMF C2 H6 O2

HO-CH₂-CH₂-OH

=> log y

COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE

ENTRY

76.24

SINCE FILE

ENTRY

-9.36

TOTAL

SESSION

614.14

TOTAL

SESSION

-10.92

STN INTERNATIONAL LOGOFF AT 12:46:56 ON 01 MAY 2007